

5/10/2018

Print



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

## Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Tot
PO039811	ACI001-VC	5	1	Net 30	MT-4140QT-R0.500	AISI 4140 Quenched & Tempered Steel Round Bar 0.500" Dia.: AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT				6	5/11/2018	6		S070044	Stock	5/10/2018	\$ 3.35 / ft	0		\$20
Total:										6		6								\$15.

Plex 5/10/2018 9:10 AM Dart Dubois Pascal



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## Purchasing Receipts

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PO039811	ACI001-VC	1	1	Net 30	MT-1144-R0.750	1144 Steel Proof Round Bar 0.750" : MATERIAL : AISI 1144 STRESSPROOF STEEL ROUND BAR ASTM A311 or UNS G11440				12	5/11/2018	12		S069912	Stock	5/9/2018	\$ 2.79 / ft
		2			M6061T6R1.500	6061-T6 Round Bar 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				40		40		S069913	Stock	5/9/2018	\$ 6.35 / ft
		4			M6061T6B0.750X04.000	6061-T6 Bar .750 X 4.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		12		S069914	Stock	5/9/2018	\$ 11.49 / ft
Total:										64		64					

Plex 5/9/2018 2:26 PM Dart.Dubois.Pascal



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER PO039811

**Supplier:** ACI001-VC  
Acier Ouellette Inc.  
935 Boul. Du Havre  
Valleyfield  
QC  
J6S 5L1 Canada  
Phone: 800 667 4248  
Fax: 450 377 5696

**PO No:** PO039811

**PO Date:** 5/14/18

**Due Date:** 5/14/18

**Purchase Order  
Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**E-MAILED**  
MAY 07 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pynt Terms:** Net 30

**Freight Terms:**

**Special Comments:** QUOTE NO. SOU0104308, SOU0104119

## Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	MT-1144-R0.750		1144 Steel Proof Round Bar 0.750" : MATERIAL : AISI 1144 STRESSPROOF STEEL ROUND BAR ASTM A311 or UNS G11440	Firmed	5/10/18	12 ft	0 ft	12 ft	\$2.78916666/ft	\$33.47
						12'			MAY 09 2018 DAS 11 9-89	
2	M6061T6R1.500		6061-T6 Round Bar 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	5/10/18	40 ft	0 ft	40 ft	\$6.3515/ft	\$254.06
						40'			MAY 09 2018 DAS 11 9-89	
3	MT-4140QT-R2.500		AISI 4140 Quenched & Tempered Steel Round Bar 0.500" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	5/10/18	6 ft	0 ft	6 ft	\$26.8612666/ft	\$161.17
						<del>6 ft</del>	<del>0 ft</del>	<del>6 ft</del>	<del>MAY 09 2018</del> <del>DAS</del> <del>11</del> <del>9-89</del>	

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	M6061T6B0.750X04.000		6061-T6 Bar .750 X 4.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	5/10/18	12 ft	0 ft 121	12 ft	\$11.486666/ft MAY 09 2018	\$137.84 DAS 11 9-89
Grand Total:										\$586.54

## Order Notes

## Procurement Quality Clauses

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 5/7/18 8:53 AM dart.lavoie.chantal



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO039811**

**Supplier:** ACI001-VC  
Acier Ouellette Inc.  
935 Boul. Du Havre  
Valleyfield  
QC  
J6S 5L1 Canada  
Phone: 800 667 4248  
Fax: 450 377 5696

**PO No:** PO039811

**PO Date:** 5/14/18

**Due Date:** 5/11/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

*REVISED*

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:** QUOTE NO. SOU0104308, SOU0104119

## Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
3	MT-4140QT-R2.500		AISI 4140 Quenched & Tempered Steel Round Bar 2.500" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	5/11/18	6 ft	0 ft	6 ft	\$26.8612666/ft	\$161.17
5	MT-4140QT-R0.500		AISI 4140 Quenched & Tempered Steel Round Bar 0.500" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	5/11/18	6 ft	0 ft	6 ft	\$3.345/ft	\$20.07
<b>Grand Total:</b>										<b>\$181.24</b>

## Order Notes

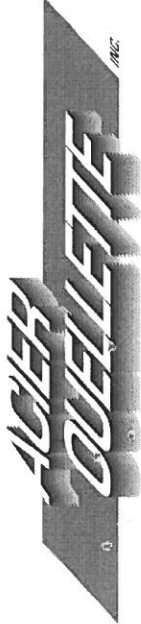
Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
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*CL*



# DELIVERY - CLIENT

Copy

CO00088065

**ACIER OUELLETTE INC.**  
935, Boul. du Hâvre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CLI0001056

Date

2018/05/07

Delivery date

2018/05/09

Your order N°

PO039811

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

OUELLETTE VALLEYFIELD

Net 30 Days

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Credit Terme

Page

1

Instruction F-M

Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB		Internal Use Only			
				CMD	EXP	B/O	IN	I	S C
<b>1</b> ROUND STRESSPROOF 3/4 (R) RST-34 5815 1 X 12' LINE#1 heat: C124677	18.00	12.00	PL_\$CLB		1 X 12' DC		12		MAY 09 2018
<b>2</b> ROUND ALU 1 1/2 6061-T6 * RAL-112 5119 2 X 20' LINE#2 HEAT: 5XB161651	83.04	40.00	PL_\$CLB		2 X 20'		40		MAY 09 2018
<b>3</b> ROUND 4140 HEAT TREAT 1/2 (R) R4140-12H 4907 1 X 6' LINE#3	4.01	6.00	PI		1 X 6'		X 6		MAY 09 2018 MAY 10 2018

DAS 11 9-89

NIR : R-109516-6

Next Page...



2

Page

Total Weight (Lbs): 147.34

Customer's Signature

Total (\$CAD)

5815

RST-34

48873

AC 9678

**Union Drawn Steel II LP**

1350 Burlington Street East, P.O. Box 98  
Hamilton, Ontario, Canada L8N 3A2  
Phone: (905) 547-4480; Fax: (905) 544-3852  
1-800-263-9966

**CERTIFICATE OF ANALYSIS**  
**CERTIFICAT D'ANALYSE**

SV  
OE  
LN  
DD  
U  
T  
OA

SE  
HX  
IP  
PE  
D  
TI  
OE  
A

DATE 07/21/17

CUSTOMER ORDER NO.  
NO. DE LA COMMANDE DU CLIENT

B 99644

MILL ORDER NO.  
NO. DE LA MILL 261333-00

PRODUCT DESCRIPTION  
PRODUIT DESCRIPTION

BILL OF LADING  
BON DE CONNAISSANCE

L 94 FE10329343 YOUR ITEM # : V715412

3/4 RD 1144 20/22 FT

COLD FINISHED STEEL BARS CARBON  
COLD DRAWN & STRESS RELIEF ANNEALED  
"CENTURY" ASTM A311 CLASS B  
STANDARD AISI TOLERANCES  
C .40/.48 MN 1.35/1.65 P .040MAX S .24/.33  
TRANSPORT BY TRUCK - PROTECT WITH TARP  
CHEMICAL & MECHANICAL TEST REPORT REQUIRED  
ASTM A108

COUNTRY OF ORIGIN - CANADA  
HOT ROLL SOURCE : ARCELORMITTAL  
NAFTA CERTIFIED YES: X NO:

LADLE ANALYSIS/ANALYSE DE LA COUILLER A COULER

HEAT NUMBER C124677

C.	.420	MN.	1.380	P.	.008	S.	.258
SI.	.200	CU.	.030	NI.	.020	CR.	.020
CB.		V.	.004	MO.	.004	PB.	
B.		AL.	.001	SN.	.006		

## MECHANICAL PROPERTIES/PROPRIÉTÉS MECANIKES

HEAT NUMBER C124677

YIELD STRENGTH  
LIMIT D'ELASTICITE 108000 P.S.I. @ .2% OFFSET  
TENSILE STRENGTH  
RESISTANCE A LA TRACTION 132000 P.S.I.

ELONGATION (2 INCHES)  
ALLONGEMENT 9.000 %  
REDUCTION OF AREA  
STRICTION 30.000 %  
HARDNESS  
DURETE 241 HB

☐ MAG  
TEST

☒ ROTO  
TEST

☐ ULTRA  
SONIC TEST

NO WELDING OR WELD REPAIR PERFORMED ON THIS MATERIAL.  
THIS MATERIAL WAS NOT EXPOSED TO MERCURY DURING  
PROCESSING OR WHILE IN OUR POSSESSION.

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HAS BEEN TESTED IN ACCORDANCE  
WITH SPECIFICATION, AND THAT THE RESULTS ARE CORRECT AS CONTAINED IN  
RECORDS OF THE COMPANY.

PAR LES PRÉSENTES NOUS CERTIFIONS QUE LA MATIÈRE DÉCRITE A ÉTÉ TESTÉE  
CONFORMÉMENT AUX SPÉCIFICATIONS ET QUE LES RÉSULTATS SONT CORRECTS. COMME  
INDIQUÉ DANS LES RÉSULTATS DE LA COMPAGNIE.

PER/PAR



# 5119

RAL-112

Pre-2348  
50286Global Vietnam  
Aluminium Co., Ltd

GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: My Xuan B1-Conac industrial zone, My Xuan town, Tan Thanh district,  
Ba Ria-Vung Tau province, Viet Nam  
Tel: +84(0)643924954  
Fax: +84(0)643924953

**MILL TEST CERTIFICATE**

Date: November 21, 2016

Consignee: SINOMETAL RESOURCES INC.  
4455 RUE CONSENS SAINT-LAURENT, QUEBEC, H4S 1X5, CANADA  
PO number: 16-P-312  
Customer PO: Inventory  
Shipping Ref No.: 16-1476  
LC No.: DC HMN615576  
Date of issue: November 15, 2016  
Item Code: 1043202  
Die Number: D00186  
Alloy & Temper: 6061-T6  
Production Description: STANDARD ALUMINIUM EXTRUSION (Round Bar)  
Round Bar 1.5"x 20' 6061-T6  
Length (inch): 240  
Bundle number: 16-P-312-028, 16-P-312-030, 16-P-312-031  
Heat Number: SXB161651  
Date: 24/10/2016  
Applicable Specifications: ASTM B221 STANDARDS

**CHEMICAL ANALYSIS: %**

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									EACH	TOTAL	
0.675	0.955	0.183	0.266	0.019	0.095	0.015	0.018	97.680	<0.05	<0.10	22/10/2016

**MECHANICAL ANALYSIS:**

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
38.9	35.6	10.9	22/10/2016

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

\_\_\_\_\_  
Quality Manager

TRUNG TÂM KIỂM NGHIỆM CÔNG TY  
TNHH NHÓM TOÀN CẦU VIỆT NAM  
GLOBAL VIETNAM ALUMINIUM  
CO., LTD TESTING CENTER

RAL 112

# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

TRA-2676

Page 01 of 02

Certification Date  
25-SEP-2017

50872

4907

R4140-12H

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

AC00009558

Invoice Number  
S697927

PART NUMBER/NUMÉRO DE PIÈCE

506031

SOLD TO: ACIER OUELLETTE INC  
VENDU À:SHIP TO:  
EXPÉDIÉ À:

ACIER OUELLETTE INC.

22 BOULEVARD J-F KENNEDY  
ST JEROME QC J7Y 4B622 BOULEVARD J F KENNEDY  
SAINT JEROME QC J7Y 4

Description: 4142 CF HEAT TREATED S/R OR STRESS FREE BAR

1/2 RD X 12' R/L

Line Total: 160 LB

HEAT: 190696

ITEM: 506031

Specifications:

ASTM A434 CL BC 12

ASTM A193 M15

ASTM A322 13

EN 10204 04

ASTM A193 GR B7 M

ASTM A29-A29M 15

ASTM A331 95

ASTM A108 13

ASTM A304 11

ASTM A962/A962 14

## CHEMICAL ANALYSIS

C	MN	SI	P	S	CR	NI	MO
0.42	0.97	0.26	0.011	0.022	1.04	0.20	0.23

CU	AL	CA
0.17	0.026	0.0008

RCPT: R294209

COUNTRY OF ORIGIN : SPAIN

## MECHANICAL PROPERTIES

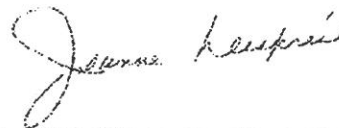
DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	110.0	145.0	17.6	58.8	269

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date  
25-SEP-2017

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

AC00009558

Invoice Number  
S697927

PART NUMBER/NUMÉRO DE PIÈCE

506031

SOLD TO: ACIER OUELLETTE INC

SHIP TO:

ACIER OUELLETTE INC.

VENDU À:

EXPÉDIÉ À:

22 BOULEVARD J-F KENNEDY  
ST JEROME QC J7Y 4B6

22 BOULEVARD J F KENNEDY  
SAINT JEROME QC J7Y 4

Description: 4142 CF HEAT TREATED S/R OR STRESS FREE BAR  
1/2 RD X 12' R/L Line Total: 160 LB

HEAT: 190696 ITEM: 506031

END-QUENCH HARDENABILITY (JOMINY - RC)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
60	60	60	59	59	58	58	57	57	56	56	55	55	54	54
16	18	20	22	24	26	28	30	32						
53	52	51	49	48	47	46	45	44						

GRAIN SIZE : 7 -

VACUUM DEGASSED MATERIAL IS FREE FROM MERCURY CONTAMINATION  
EDDY CURRENT/MAGNETIC TEST PERFORMED  
THERMAL TREATMENT: OK  
QUENCHING 1.562 F, TIME: (1): 45MIN; COOLING: (1): OIL  
TEMPERATURE MEDIA AT THE START: (1) 95 F: TEMPERATURE MEDIA  
AT THE FINISH (1) 122 F  
TEMPERING 1.202 F; TIME (2) 150 MIN COOLING (2) AIR  
TEMPOF (3) STRESS RELIEVED 1.102 F (3) 120 MIN  
MACRO: OK

## COMMENTS

country of origin: spain  
reduction ratio 167,8

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

Test de dureté Rockwell  
Rockwell Hardness Test

Client / Customer : LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address : 4054 BOUL. LE CORBUSIER, #201  
LAVAL, QC  
H7L5R2

# commande # : 7100203

# bon de commande / Purchase order # : OU-48345

# de matrice / Die # : MS 15954 Description : 4x3/4" FLAT BAR

Alliage & trempage / Alloy & temper : 6061 T6 Longueur / Length : 6096 mm

# Contrôle / Control # : 553-1

# Coulée / Cast # : 70740

Dureté Rockwell E / Min. requis / Max. permis /  
Rockwell E hardness : 94 HRE Min. required : 88 HRE Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0,20 - 0,60	0,35 Max	0,10 Max	0,10 Max	0,45 - 0,90	0,10 Max	0,10 Max	0,10 Max
6005	0,60 - 0,90	0,35 Max	0,10 Max	0,10 Max	0,40 - 0,60	0,10 Max	0,10 Max	0,10 Max
6005A	0,66 - 0,74	0,14 - 0,28	0,08 - 0,16	0,18 - 0,26	0,46 - 0,54	0,03 Max	0,05 Max	0,05 Max
6061	0,40 - 0,80	0,70 Max	0,15 - 0,40	0,15 Max	0,80 - 1,20	0,04 - 0,35	0,25 Max	0,15 Max
6351	0,7 - 1,3	0,5 Max	0,10 Max	0,40 - 0,80	0,40 - 0,80	---	0,20 Max	0,20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre, date : 2017-11-09  
Yours truly,

Daniel Alfredo Pelletier  
Directeur Qualité  
Quality Director

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606176 B0.750x04.000 PO / BATCH NO.: 039811/80699121  
 DATE: MAY 09 2018

MATERIAL CERT REC'D: YES  
 QUANTITY RECEIVED: 12'  
 QUANTITY INSPECTED: 12'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750  
 THICKNESS RECEIVED: 0.750  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N <input type="radio"/>	<u>Astm B-221</u>
CORRECT THICKNESS	Y <input checked="" type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N <input type="radio"/>	<u>Heat # 70740</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 MAY 09 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TT | X | WW.WWW |  
THICK | WIDTH

WHERE "T.TT" = THICKNESS IN INCHES  
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DESIGN	DS	DESCRIPTION	CP	09.07.13
DRAWN	AS	DART AEROSPACE LTD	DS	01.06.08
CHECKED	AS	HAWKESBURY, ONTARIO, CANADA	BY	DATE
MFG. APPR.	MS	M6061T6B		
APPROVED	MS	6061-T6 BAR		
DE APPR.	MS			
DATE	09.07.13			

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RELEASED  
2009-05-03  
MS

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H6R1.300  
 DATE: MAY 09 2018

PO / BATCH NO.: 039211/5069913

MATERIAL CERT REC'D: YES  
 QUANTITY RECEIVED: 40'  
 QUANTITY INSPECTED: 40'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500  
 THICKNESS RECEIVED: 1.500  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	Astm B221
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	Heat # 5XB161631
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u>	SIGNED OFF BY: _____		
DATE: <u>9-89 MAY 09 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R(D.DDD)  
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES  
EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED  
R 2009-09-09  
MJP

B	REFORMAT DWG. ADD B211 & B221 SPEC (ZIN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO. M6061T6R		SHEET 1 OF 1	
TITLE 6061-T6 ROUND BAR		SCALE NTS	
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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-1144-RO.750  
 DATE: MAY 09 2019

PO / BATCH NO.: 039811/5069912

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 12'  
 QUANTITY INSPECTED: 12'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750  
 THICKNESS RECEIVED: 0.750  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>Astm A311</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>Heat# C124677</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>11</u>		SIGNED OFF BY: _____	
DATE: <u>9-89</u> <u>MAY 09 2019</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

8 7 6 5 4 3 2 1

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.08.09	VM	WM

## SPECIFICATION CONTROL DRAWING

21.09.12

PURCHASE MATERIAL : AISI 1144 STRESSPROOF STEEL ROUND BAR  
SPECIFICATION: ASTM A311 or UNS G11440  
PART NUMBER: MT-1144-R (D.DDD)  
WHERE "D.DDD" = DIAMETER IN INCHES  
EG. 5/8" ROUND BAR = MT-1144-R0.625

<b>DART AEROSPACE</b> Headquarters, Ontario, Canada	
TITLE AISI 1144 STRESSPROOF STEEL ROUND BAR	
DWG NO.	MT-1144-R
DESIGN BY:	VM 8/9/2017
DESIGN BY:	VM 08/31/2017
CHECKED:	SC 08/31/2017
QA APPL:	PD 08/31/2017
APPROVED:	WM 09/05/2017
DATE:	8/31/2017
SCALE:	NTS
WEIGHT:	0.0 LBS
SHEET:	1 OF 1
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8 7 6 5 4 3 2 1

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140 QT-R0.500

PO / BATCH NO.: 039811/50700441

DATE: MAY 10 2018

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.500

QUANTITY RECEIVED: 61

THICKNESS RECEIVED: 0.500

QUANTITY INSPECTED: 61

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Astm A29</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Heat # 190696</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>		SIGNED OFF BY: _____	
DATE: <u>9-89 MAY 10 2018</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 ROUND BAR  
MINIMUM ROCKWELL C = 20 Rc  
MAXIMUM ROCKWELL C = 38 Rc

SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529

PART NUMBER: MT-4140-R-[D.DDD]  
WHERE "D.DDD" = DIAMETER IN INCHES  
EX. 4" ROUND BAR = MT-4140-R-4.000

<b>DART AEROSPACE</b> Newkirk, Ontario, Canada	
TITLE <b>AISI 4140 ROUND BAR</b>	
PART NO. <b>MT-4140-R</b>	REV. <b>A</b>
TOOL NO.	
UNLESS OTHERWISE SPECIFIED: INTERPRET PER ASME Y14.5M-2009 DIMENSIONS APPL. AFTER FINISHING	
DESIGNED BY: VM 12/20/2017	DATE
DRAWN BY: VM 12/13/2017	DATE
CHECKED BY: ML 12/19/2017	DATE
MFG REVIEW BY: DP 12/20/2017	DATE
APPROVED BY: ML 12/20/2017	DATE
SCALE: NTS	
SHEET 1 OF 1	
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